

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H03M1/12

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 HO3M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, IBM-TDB, INSPEC

# C. DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, wi

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | EP 0 474 025 A (MOTOROLA INC)  11 March 1992 (1992-03-11)  abstract; figure 2  page 2, line 10 - line 11  page 2, line 23 - line 26  page 2, line 34 - line 36  page 2, line 51 - line 55  page 3, line 2 - line 7  page 7, line 51 - page 8, line 31  page 8, line 35 - page 9, line 36  page 10, line 50 - line 58  page 14, line 25 - line 32  -/ | 2,8,26                |

| Further documents are listed in the continuation of box C.  | X Patent family members are listed in annex.  |
|---|---|
| Special categories of cited documents:  'A' document defining the general state of the art which is not considered to be of particular relevance  'E' earlier document but published on or after the international filing date  'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  'O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the international filing date but later than the priority date claimed | <ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul> |
| 3 November 2004   | Date of mailing of the international search report  12/11/2004  |
| Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016  | Oliveira, J.  |

In attornal Application No PCT/IB2004/051248

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| PATENT ABSTRACTS OF JAPAN vol. 1997, no. 05, 30 May 1997 (1997-05-30) & JP 9 027750 A (MATSUSHITA ELECTRIC IND CO LTD), 28 January 1997 (1997-01-28) abstract   | 2,26  |
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ternational application No. PCT/IB2004/051248

| Box il Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)   |
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| This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:   |
| Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:  |
| 2. X Claims Nos.: 1,3-7,17-25 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  See FURTHER INFORMATION sheet PCT/ISA/210 |
| 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).  |
| Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)   |
| This international Searching Authority found multiple inventions in this international application, as follows:  |
| As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.   |
| 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  |
| 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  |
| 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  |
| Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.  |

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1,3-7,17-25

- 1) The characters "'..! aof '..!" in page 14 line 10 of claim 1 have been interpreted as "'..!an expiry of'..!" according to the description page 2 lines 28-29.
- 2) The word "detection" in the claims and the description and its variations have been interpreted as "sampling" from what can be understood from the description and the figures.
- 3) It is not understood what is the object of protection sought in the characterising part of independent claim 1 even when taking the description into account.
- a) It is not clear at all what is meant in claim 1 by "'..! expiry of the multichannel analog/digital conversion '..!", i.e. this could represent the conversion time or the end of the conversion time of a sample in one of the channels or even something else.
- b) It is also not clear what is the meaning of "'..!an expiry of the multichannel analog/digital conversion '..! is valid '..!", i.e. in which way can an "expiry" be "valid".
- c) Finally the "'..!entire channel including the detection of the channel sample '..!" is also not clear, i.e. what are the elements defining the "'..! entire channel '..!".
- 4) It is also not possible to perform a meaningful search of the corresponding arrangement defined in independent claim 25 for the reasons indicated in 3) and since dependent claims 17-24 do not contribute to clarify claim 1 they could also not be the subject of the search.
- 5) The object of claim 3 is also not clear since "'..! the calculations '..! for the expiry of the multichannel analog/digital conversion '..!" have not been defined in claim 3 nor in claim 2.
- 6) The objection stated in 3)a) also applies for the wording "'..! expiry of the multichannel analog/digital conversion'..!" in claim 3.
- 7) Claims 4-7 being dependent on 3 it is also not possible to derive a meaningful search for these claims.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any

# Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be

overcome.

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In atlonal Application No PCT/IB2004/051248

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